

# Recombinant Human MFG-E8 Protein

Catalog No.: RP03233 **Recombinant**

## Sequence Information

| Species | Gene ID | Swiss Prot |
|---------|---------|------------|
| Human   | 4240    | Q08431-1   |

### Tags

C-His

### Synonyms

P47;MP47;Mfgm;SED1;MFG-E8;AA408458;AI325141;lactadherin;MFG E8

## Product Information

| Source                   | Purification       |
|--------------------------|--------------------|
| Baculovirus-Insect Cells | > 85% by SDS-PAGE. |

| Calculated MW | Observed MW |
|---------------|-------------|
| 42 kDa        | 45 kDa      |

### Endotoxin

< 1 EU/ $\mu$ g of the protein by LAL method.

### Formulation

Lyophilized from a 0.22  $\mu$ m filtered solution of 20mM Tris, 500mM NaCl, pH 7.4, 10% gly. Contact us for customized product form or formulation.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

MFG-E8, also known as lactadherin and MFGE8, contains 1 EGF-like domain and 2 F5/8 type C domains. It also contains phosphatidylserine (PS) binding domain, as well as an Arginine-Glycine-Aspartic acid motif, which enables the binding to integrins. It binds PS, which is exposed on the surface of apoptotic cells. MFG-E8 is expressed in mammary epithelial cell surfaces and aortic media. Overexpression of MFG-E8 can be found in several carcinomas. MFG-E8 has opsonization of the apoptotic cells and binding to integrins on the surface of phagocytic cells. It also mediates the engulfment of the dead cell. MFG-E8 plays an important role in the maintenance of intestinal epithelial homeostasis and the promotion of mucosal healing. It promotes VEGF-dependent neovascularization and contributes to the phagocytic removal of apoptotic cells in many tissues. It also binds to phosphatidylserine-enriched cell surfaces in a receptor-independent manner.

## Basic Information

### Description

Recombinant Human MFG-E8 Protein is produced by Baculovirus-Insect Cells expression system. The target protein is expressed with sequence (Leu24-Cys387) of Human MFGE8/BA46 (Accession #NP\_005919.2) fused with a 6xHis tag at the C-terminus.

### Bio-Activity

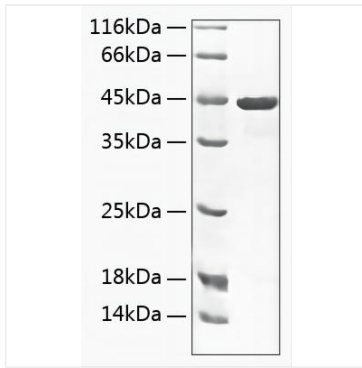
When 5 x 10E4 cells/well are added to Recombinant Human MFG-E8 coated plates (12.5  $\mu$ g/mL, 100  $\mu$ L/well), 45-85% cells will adhere after 1 hour at 37°C.

### Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Human MFG-E8 Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 45kDa.